IUID Business Case Analysis

Agenda

- Getting Started with IUID
- Thought Process Used
- Business Case Analysis
- Planning Considerations
- Implementation
- Lessons Learned

Getting Started
Business Case Analysis

- ## Step 1 - Understand IUID
  - Does it affect us? How?
- ## Step 2 - Initial Requirements Analysis
  - What do we have to mark?
- ## Step 3 - Detailed Requirements Analysis
  - Who, What, Where, When, & How do we mark it?
- ## Step 4 – Identify Sources
  - Information, Hardware/Software, materials
- ## Step 5 – Write Plan
- ## Step 6 - Execute
  - Mark, Register & Use
- ## Step 7 – Update

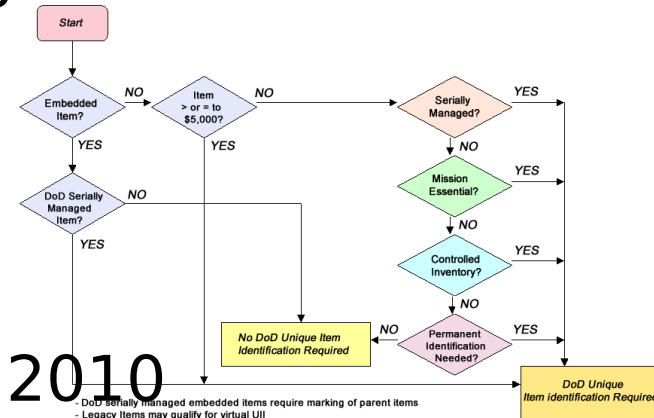| Bottom Line	Do your homework, know what you need to do

NAVEODTECHDIV Planning

- IUID Oversight Manager assigned – June 2005
- PMS-EOD Unique Identification (UID) Implementation Plan published - 10 Aug 2005
- Individual Implementation plans completed - July 2006
- Verify No GFP - July 2006
- Verify legacy item data – FY 06/07
- Unrealistic to tag all in-service items by September 2007
    - Use virtual UII – FY 06/07
    - Create UII, send to registry – FY 06/07
    - Mark the item later – FY 07/10
    - Use combination of "Trigger Events" and "Seek and Apply"

Bottom Line	Use an IUID Manager and working group

2006 JSEOD IUID Requirement

- NAVEODTECHDIV evaluated all in-service items using decision tree of DoD Defense Guide to Uniquely Identifying Items
  - 17 CI'S identified as requiring IUID
  - 13 will receive IUID
    - 4 Robots
    - 4 Ordnance locators
    - 4 Tools sets
    - 1 Disrupter
  - 4 will be out of service by FY 2010
    - MK 121 MOD 0 (MRFDK)
    - MK 32 MOD 1/3/4 (X-RAY)

Bottom Line	Ensure UII is permanent on what you are marking

IUID CHALLENGES

- AVAILABLE FUNDING
- DEPLOYED UNITS/EQUIPMENT
- LACK OF LEGACY HISTORICAL DATA
- NAVICP CONTRACT LIMITATIONS
  - DFARS clause not added to contracts
- GSA CONTRACT LIMITATIONS
  - DFARS clause not added to contracts as not just DoD
- RESPONSE FROM SERVICE UNITS

Bottom Line	Just do it…it won't go away

Implementation

- Registry doesn't track all needed by ISEA
  - The IUID Registry will not:
    - Track where the item is, who is using it, or configuration management
    - Maintain contextual data (full life cycle)
- Why did we embrace it?
  - Saw how to utilize in supply chain management
  - COLTS software concurrent development
  - Real time "cradle to grave" visibility
  - Data integrity
  - Track what, where, when, & how
  - Labor savings at ISEA

Bottom Line	IUID can provide better data and cost avoidance

Why buy equipment and software?

- Initial cost avoidance with 1 robot vendor
  - $250K – Non-recurring cost
  - $3K – Recurring annual cost
  - $400 increase per delivered system
- Recurring legacy systems requirement
- Vendors unable to comply or cost prohibitive
  - Small business exemption at DFARS
  - Separate CLIN for IUID in case cost prohibitive
- Organic Depot, ISEA, Design Agent, Naval Inventory Control Point, and Quality Assurance for contract materials
- Need to verify/validate OEM markings

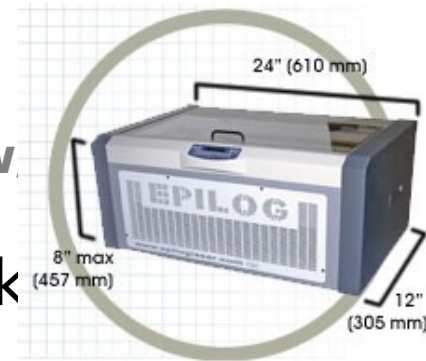| Bottom Line	OEM Vendors, especially small businesses are still hesitant to do IUID and don't understand it.

Business Case Analysis

- FY 2006 – BCA ROI
  - Measured against total investment of $650K for FY 06/07
  - **Estimated labor reduction** savings for increase in accuracy due to scanning UII vice manual tracking
    - **$710,694 over 3 years**
    - Annual estimated savings
      - Operational - 0.25 man years
      - Maintenance - 0.5 man years
      - Engineering - 0.25 man years

Bottom Line: Documented actual cost avoidance of **$2,793,460**

IUID Hardware/Software

- Initial Installation & training completed June 06
  - 2 - Laser marking systems
    - **Epilog 35 watt Mini 24 x 12 w/**
    - **2 Air Filtration systems**
  - 2 - Verification system lab k
  - IUID Software
  - Tesa tape
  - Scanners
    - **4 - Mxi Hand Held Imager with portability**
    - **4 - HandHeld 4800SR05**
    - **2 - Seimens HE45T**
    - **17 - CR1200 with IDI Smart-Scan™ Technol**

Bottom Line	Verifier/Validator - Quality is critical – base on requirement - May not need to read verify and validate all types of UII

Scanner History

- ## Original purchase – March 200[...]
  - ### Siemens Mxi
    - No NMCI yet
    - Required software upload to PC to use and strip data elements
    - Portable with Li-ion Battery
    - Worked well until NMCI

- ## 2nd Purchase – February 2007
  - ### HandHeld 4800SR05 Industrial 2d Scann[...]
    - No software upload required
    - Inexpensive ~$500 each
    - USB powered only – tied to PC
    - Did not strip record separators from data elements for COLTS

Bottom Line — **Use an IUID Integration vendor**

Scanner History

- 3rd Purchase – October 2007
  - Siemens HE45T
    - No software upload required
    - Works well with COLTS
    - Strips data elements
    - Programmable
    - Portable with Li-ion Battery
    - Expensive for large scale use ~$1700 ea

- 4th Purchase – August 2009
  - ID Integration SYSCIDI-S1A
    - No software upload required
    - Inexpensive ~$800
    - Code Corp CR1200 w/ IDI Smart-Scan™ Technology
    - UID/UII Validation, Error Reporting, and UII output
    - UID Data parsing

Bottom Line	Imager (Scanner/Reader) - Must work with your software & you get

Where are we now?

- Current IUID Marking is Combination of:
  - OEM Vendor Production Marking
  - NAVEOD Production Delivery Marking
  - Seek & Apply Marking
  - Opportunity Based Marking
  - Trigger Point Marking
- Scanning for:
  - Maintenance actions
    - Preventive & Corrective
    - Modifications
    - Configuration Management
  - Shipping & Receiving
- Data used for:
  - trend analysis
  - product improvement

Bottom Line	Real time serialized item management with COLTS

Physical Marking Progress